



THE BLURB

A.R.E.A. Member

PHILMONT MOBILE RADIO CLUB INC.



Silent
Night



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New Members Chairman

- W3DSG

CIRCULATION AND PRINTING

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- K3GNJ

Boss Stitcher

- W3VVS

Collator

- W3QQH

The "Blurb" is published by and for the members of Phil-Mont to further the interest of Amateur Radio in general and mobile Radio in particular. We endeavor to keep the news accurate, interesting and in a small way educational. Copying and quoting is permitted, provided credit lines are included. Commercial use is not permitted and subscriptions are gladly exchanged with other radio clubs.

DEADLINES

The "Blurb" is mailed on the last monday of the month. All material for the "Blurb" must be received by the Editor, K3KUD before the 15th of the month.

1962 CLUB OFFICERS

Pres. Lloyd Sherman W3CDY

V. Pres. Chas. Greenwood W3GOW

Treas. Bob Diefenderfer K3DJE

Sec. Enos Bartol K3GNJ

Bd. of Dir.: W3's, NIP, VVS, QQH,

AWH, AK, DSG, WNC

and all 1962 Club Officers

NET AND NET FREQUENCIES

Ch 1 - 29493 Kcs. Ch 3 - 147.78

Ch 2 - 29629 Kcs. Ch 4 - 50.7 Mcs.

Orange Juice Net 0700 - 0730

Scrambled Egg Net 0730 - 0830

Weekdays

Ten on Ten Sundays 1000 - 1100

Blarney sessions anytime Ch 1 or Ch 2.

29493 0930 - 2400

Monitored daily for the benefit of mobiles in the Philadelphia area.

PMRC CALENDAR

MEETINGS

Regular Meetings: First monday
of each month.

Time: 2000 hours (8:00 p.m.)

Place: FRANKLIN INSTITUTE

20 & Benj. Franklin Parkway

MID MONTH SCHEDULE

June W3DJW

July W3QQH

August W3NIP

September W3VVS

October W3CDY

November W3ADF

December K3DJE

THE ITEM BELOW MAY BE A BIT,
PREMATURE - BUT WHEN IT HAPPENS
REMEMBERZ YOU SAW IT FIRST IN
THE BLURB - ANOTHER P.M. FIRST!

Sam's CORNER



**FCC'S GIFT TO
'CHARLIE BROWN'**

THE PRES SEZ:

My contribution to this column for December is the twelfth and brings to a close another year for Phil-Mont. To me it has been a privilege to take a part in contributing to the "Blurb." I sincerely hope that it was worthwhile reading.

I cannot help but express my deepest appreciation to all those who attended the Dinner Dance. The whole affair portrayed the amateur and Phil-Mont spirit so effectively. Those on the committee, who worked so hard to make it a success, deserve the highest commendation for their part which they handled so efficiently.

To review the year would be interesting, but I rather choose to let the past year cast its reflections on 1963. Much has happened in 1962 and I would not predict what will pass in 1963. Without reluctance, I cannot help but feel that 1963 looms as another interesting year.

When my application for membership in Phil-Mont was accepted, I could not help but feel honored to be a member of the Club. There were no personal ambitions. During my early years in the Club, I was asked to accept a nomination for office. Although I consented, there was little hope of winning. The election results showed this hope correct. The count showed one for yours truly, the rest for my opponent, and I did not even vote for myself. This proved that I had one friend in Phil-Mont.

Years passed on, and the honor of being elected President was mine for 1962.

The responsibilities and work as your President impose a certain load. This load was, however, never a burden, as it was always lightened by your help, information, kind words of encouragement, the privilege you gave me and the great "Honor" to serve as your President of 1962.

As I pass the gavel to the new President, let me say, it is you, Phil-Mont, that has made me far richer for the experience. May I always uphold the dignity of Phil-Mont.

* * * *

IT SEEMS TO ME:

Now that the Dinner-Dance has come and gone, our first thought might be that we've reached the climax and there is nothing more to look forward to. However, a little more searching thought reveals that we in Phil-Mont are just really starting. New officers will be taking over, Field Day is coming again and the regular work of making the club go continues-often unnoticed, but still very necessary. Let's all pitch in and make this a bigger and better year than ever before for Phil-Mont and Phil-Monters.

de K3KUD

W3UKF - "Doc" Rose

"Doc" Rose, a member of Phil-Mont for many years, and a respected member of the medical profession, died on October 31, 1962. Dr. Rose was well known for his work with children and was Director of the Philadelphia Child Guidance Clinic in Philadelphia. Illness and the press of other commitments in recent months limited his participation in club activities, but he will be sorely missed by all those who knew and respected him.

The Blurb extends the sincere sympathy of Phil-Mont to his family.

* * * * *

ANNUAL ELECTION OF OFFICERS

December is the month in which the annual election of officers for the coming year takes place. Listed below are the candidates for each office as presented at the November meeting. We urge all members of the Club to be present and to vote for his choice. Remember, these are the men who will represent Phil-Mont for 1963 - do your part to insure that your candidate is elected. VOTE !

<u>President</u>	<u>Secretary</u>	<u>Treasurer</u>	<u>Director</u>
W3EQV	W3BSG	W3GIF	K3DJE
W3GOW	K3HIJ	W3MHR	W3PST
K3GNJ			
W3ZPP			

While we urge all members in good standing to be present and vote, we also realize that due to sickness or other circumstances, some may not be able to do so, therefore, we are printing below a proxy form which may be used to cast your vote even though you are not present. This form may be copied or cut out for use. It must be filled out completely and in the hands of your proxy so that he has it for the meeting. Your choices, as indicated thereon, are only binding upon your proxy for so long as your candidate remains in the running. The proxy is released to vote as he sees fit if and when your choice is dropped out.

----- SAMPLE PROXY FORM

I _____ hereby authorize _____
(your name and call) (proxy name and call)

_____ to act as my proxy at the December, 1962
call)

Phil-Mont elections; my choice is as follows:

(1st Choice) President _____ (2nd Choice) _____
Secretary _____
Treasurer _____
Board Member _____

(Signed) _____

1962 CLUB AWARDS

At the Dinner-Dance, several awards were made in recognition of work for the Club in the past year. The awards were as follows:
OUTSTANDING MEMBER - to Enie Bartol, K3GNJ. Certainly a very much deserved recognition of a real hardworking and popular member of the Club. Enie is the present Secretary of the Club and a nominee for President for 1963.

PHIL-MONTER OF THE YEAR - to Ernie Juliani, W3D\$G. Awarded by the President, W3CDY, in recognition of the qualities which exemplify the aims of the Club.

LADY PHIL-MONT - 1962 awarded to Peg Schmilewske, XYL of the Editor, K3KUD, by the President, W3CDY, for her interest and effort in getting the Blurb to press while I was galivanting around Europe and our son was recovering from an accident.

A SPECIAL AWARD - to Brad Martin, W3QV, for just being around and willing to help everyone.

Our congratulations to each of the above winners, and speaking for both my XYL and myself, thanks for the kind words for doing a job we enjoy.
(Ed.)

* * * *

SPACE COMMUNICATIONS:

The U.S. Air Force will soon test its SPADATS (Space Detection and Tracking) system at Colorado Springs. The radar array is 330 feet long and 144 feet high and is a phased system capable of tracking many objects simultaneously. It will be used, among other things, for obtaining orbital information on satellites on the first pass.

*

The Canadian-U.S. Alouette satellite, launched September 28, 1962 has indicated that the ionosphere is an excellent reflector of radio-waves from above as well as below. The satellite is transmitting on frequencies between 1.6 Mc and 11.5 Mc.

*

An electronic component has been developed consisting of a capacitor, four resistor grids and wire circuit in a space 2/3 the size of a penny.

*

Countermeasure operators on Air Force B-52's say they can jam a radar guided surface to air missile so effectively in the first 1/3 of its flight, that no bomber evasive action is required if the missile is acquired in time. After that, there is a brief period when evasive action will help and then --- Adios.

*

Radio astronomers at the University of Michigan have measured the intensity of low frequency radio waves in the Milky Way with a 145 pound instrument package boosted into space 1050 miles, from Wallops Island. Researchers hope to find the exact location of an expected drop off in electromagnetic radiation intensity with decreasing frequency. Standard radio astronomy techniques are blocked from such measurements by the earth's atmosphere.

*

The Falcon, heat seeking air to air missile, has been hitting 36" diameter bullseyes in tests of over 50 miles range.

CLUB ACTIVITIES:

The November meeting was a very busy one and very interesting. The Dinner-Dance Committee gave a final pre-banquet report, after which the Nominating Committee took over and presented their selection of candidates for 1963 club officers. Following the business portion of the meeting, K3GNJ displayed and discussed his beautiful, 100% home brew mobile transceiver-2 xtal controlled channels for receive/transmit, 50 watts nominal in a very neat package.

The "piece-de-resistance" was a very find, concise presentation by Al Polanezcy, W3EFY, on Univac I. Al first explained how and why Univac worked, in terms the layman could understand. After the explanation, we went downstairs and saw the actual operation on two antenna calculations, printing out QSL cards and Sweepstakes Logs and a comparison of the age/height/weight of several club members with actuarial information which was programmed into the Univac. Congratulations to Al on a real FB job!

* * * *

On November 10, 1962, at the Llanerch Country Club, West Chester Pike and Manoa Road, 210 Phil-Monters and their wives spent an enjoyable evening of wining, dining and dancing. Under the spark-plugging of Al Lewis, W3WPD, tickets seemed to sell like wildfire. No one was disappointed. After greetings by the 'Baron of Berwyn', W3LNQ, acting as MC under some duress, dinner was served. Fruit cup and salad, roast beef and lobster tail, baked potatoes and green beans, plenty of butter and excellent rolls, ice cream with brandy sauce, coffee and tea--all served to comfortably satisfy even the most particular tastes.

Our President, W3CDY, Lloyd Sherman, took time to introduce the present officers and welcome everyone. W3VVS, Paul Bohlander broke his silence on the Outstanding Member voting with the award to K3GNJ, Enos Bartol. W3CDY introduced two new awards which we hope will continue in future years. 'Madame Phil-Monter' was presented to Peggy Schmilewske, K3KUD's xyl for her work on the Blurb in Bob's absence. Mister Phil-Monter' was awarded to W3D\$G, Ernie Juliani, for his constant activity on Channel one. W3QV, Brad Martin was presented with a 3 dimensional plaque of 'Gumbaudi', the Phil-Mont Emblem, for his continued activity and help on the channel for the past 13 years. W3LNQ introduced the slate of 1963 nominees and invited one and all to attend the Dec. 3rd election fun.

The 4 pc. musical combo was introduced and we were off on our dancing. The union group, under the leadership of Joseph Capozio of Ridley Park, pleased everyone young and old. At the first break in the dancing, prize drawings began. Ada Diefenderfer (K3DJE*xyl) and Pat Schoenly (K3QXY-xyl) had purchased \$100 worth of women's prizes and these were chosen by 49 lucky ladies. Men's prizes, donated by distributors, individuals and including \$60 of Phil-Mont purchases, were awarded to 35 men. W3LNQ volunteered his valued supply of Seal-Trainers, W3YJM had Sunoco lighter fluid for all the men, and all male guests got a copy of 73 magazine. Everyone received a 1962 Phil-Mont pen and a Sprague pocket memo. One lucky lady at each table was awarded the centerpiece furnished by Phil-Mont.

All in all, it was considered a very successful affair. I wish to thank all those who helped to make it a success. The committee included W3D\$G, W3GIF, W3WPD, K3HIJ, K3KUD, K3HWX, W3CDY, W3GOW and W3QQH.

We also had one table occupied by a contingent from the Reading Radio Club who were very welcome and will we hope, be with us in future years.

de W3QQH

- The following is a list of distributors solicited and the prizes offered:

AG Radio	All-band-beam balun	winner
Almo Radio	Elec. toaster, elec. canopener	W3OCV
Albert Steinberg Co.	Millen Freq. Meter	women's prizes
ARRL	2 mobile manuals	Sam Smith, Sr.
Consolidated Radio	Globe VOX unit w/anti-trip	W3FLP, W3NIP
CQ Magazines	2 one year subscriptions	W3VSU
Dow-Key	Key-nunciator (code-practise unit)	K3DJE, W3IGW
Eitel-McCullough	4-CX300A w/socket & chimney	K3KHU
Electro-Voice	2 mobile mikes	K3MBQ
General Electric	1000 Ham-Tips	W3GOW, W3DJW
Hallicrafters	R-47 speaker	K3GNJ
Ham Buerger	Mobile base & spring	W3JYA
International Crystal	Ceramic ashtray	W3FOG
National Radio Co.	50% credit on NC-270	W3SMA
RESCO Phila.	VHF Handbook, 4 logs	W3CHZ, W3IVS, W3ZEN
John Rider Co.	5 Rider manuals	K3HCG, W3OWK, W3MHR
Seco Electronics	Mobile S-meter	W3WQP (W3LNQ)
73 Magazines	100 copies November 73	
UTC Transformer	R-130 power transformer	W. J. Bradley
Valpey Crystal	100-1000 kcs. crystal	W3YHV
World Radio Labs.	\$10 & \$2 gift certificate	W3MVG, Max Oppenheim
Kass Electronics Dist.	Transistor radio	W3APD
Art Stoddart, W3RFJ	Assorted chokes, non-elec. soldering iron	W3UWO, Joe Smith
Phil-Mont RC, Inc.	Transistorized tape-recorder, 24 hour clock, Brush headphones	W3IVD
W3WNC	Heath Q-Multiplier	W3WXC, K3KDP
		Charles Migeot

* * * * *

TID-BITS

Open House at "Ham" Buerger's was held on Saturday, October 27. Among those present K3CEE, W3YHV, W3ZPP, K3GNM, K3KUD, W3QQH, & W3DJV. Unfortunately none of the Phil-Mont members won prizes. The Clegg 99'er was won by Pat Patrie, W3CWD. A goodly crowd was present and, for a change, it didn't rain.

* * * * *

Radio station WLW, operating on 700 kcs. with a power allotment of 50 kw. has applied to the FCC for a power increase to 750 KWS ! ! !

Abington Township CD now has 16 Heath 2'ers on net freq. of 147 Mcs. A very active group.

* * * * *

Phil-Mont to the Rescue ! ! - K3HWX/m witnessed an accident on the Wissahickon Drive & summoned aid by reporting same to the Fairmount Park Guard Station post haste. - W3BBB/m cracked a cylinder head on the Pennsy Turnpike, the whole North End gang and quite a few South-Enders were on the job until Jim was able to get help and home safely. - W3ZN arrived home on a Saturday evening and found that both his own and his neighbor's telephones had been out of service for sometime. Harold "CQ Phil-Mont", W3DJW answered and called the telephone company with the result that service was restored in an hour.

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Tid-bits con't'd

Tid-bits (concl'd)

A distinguished prospective member of PMRC, whose company must sell more to the Army and Air Force than it does to the Navy, went to a banquet in Washington recently with his XYL. His wife's dinner companion was an Admiral Anderson, who was in civilian clothes. When our hero asked who he was, he was told "CNO" our hero next asked what or who was CNO and was told "Chief of Naval Operations". - Our anonymous contributor submits the above without further comment in deference to Comm. Algeo, W3EM, Harold, W3ZN, and many others in the club with strong Navy loyalties.

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CHANNEL CHATTER

On November 5 when W3WNC left home for the meeting, his XYL noticed that the tail-light on the car was out. XYL called K3TCA who in turn called WNC. WNC WAS NOT LISTENING. After 22 relays, W3AWH finally called WNC to tell him his tail-light was out! - K3EID is now on 6 meters with a Globe Hi-Bander with VFO - W3FTZ now has a Volkswagen with a sun roof. - W3UMK is the possessor of a postcard from Tony Fairbanks who was aboard a balloon in an international race from Zurich on Sept 23. - W3HFY heard on the Goblin Patrol in Haverford. - W3MHR and W3ZZI discussing the use of sandbags to weight down the rear ends of autos. - The 3999 kcs. group discussing the relative distracting influences of a TV set in the car and a 20 year old blonde. - K3AWC and W3JYA are still square dancing. - W3MHR chaperoned some Red Cross people during the Montco Simulated Emergency Test. - W3WNC has now gained professional status - he was heard on WCAU. - W3DYP back on Channel 1 from the home rig and sounding real fine - in fact, he changed W3UMK's call to K3UMK and promptly heard about it! - W3GIF has followed the course of his predecessors - from making coffee to being nominated for Treasurer. - WA2RDC putting an Apache on the air from the hone OTH. - The Editor K3KUD, got a new car the night before the banquet and spent 5 hours on Saturday morning transferring the rig from the old one. - How can K3GNJ be in so many places at once? It seems like sometimes GNJ/m spends the whole day running errands for the club and it's members. - W3YHV sidebanding on Channel 1. - W3D\$G rushing through the snow and rain one Sunday so that he could get back to "Sunshiny Penn Valley". - W3ZN doing a real fine job handling W3TKQ. - Our spies report that after the dinner-dance the last Phil-Monters to leave Llanerch CC were W3PST and W3UQV with their spice(pl. for spouse). - Did you lock the door behind you, fellows? - Sam Kuncovich, the Blurb's artist and staunch supporter of Charlie Brown is bearing down on his 'homework' aimed at getting a ham ticket. - Hope we get another mid-month meeting at W3CDY - his XYL bakes delicious pies and cakes.

de K3KUD

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SWAP 'N' SHOP

WANTED - Good used tube caddy - - -

W3ZPP

For Sale - Lo-noise coaxial cable, 72 ohms, 1 kw. (large) size, available in 100' or longer lengths @ \$6.00/100', mfr-Amphenol - - W3UZF

For Sale - Nat'l NC-100 ASD w/o spkr, xclnt condx, needs aligning, \$25-K3KUD

For Sale - SX-110 - \$110, Audio Gen. Eico #377 - \$30, VTVM, Eico #249 - \$35
Grid-dip meter, Eico #710 - \$25. - - - - K3EID - MA 6-8098

For Sale - Acrosound 60 w. amplifier, fair condx, - \$25.00
Fairchild amplifier, 50 w., good condx, - \$30.00
Diathermy machine, non-operating condx, its yours if you will take it away. - - - - Dr. M. Rabson, 1133 Ashbourne Rd., Cheltenham, Pa.

* * * * * ph. CA 4-1011

PHILMONT TEK-NI-GRAM

DECEMBER 1962

CONTRIBUTED BY- ROBERT (BOB) RUYLE WØFCH

HY-GAIN'S BETA MATCH SYSTEM

Hy-Gain has developed a new concept in matching devices for beam antennas. The "BETA MATCH" or sometimes called, "Hair Pin" and "Reactance Stub" is a more simple way of matching a yagi-type beam antenna to rid the construction difficulties presented by the old fashioned gamma and "T" matches. In short the BETA MATCH is a means of shorting the driven element and leading it inductively to raise the input resistance. This method has long been used with the ground-plane antenna and occasionally with other types; but, the idea of using the method with a yagi-type beam antenna is little known. Let's take a look at a little bit of the theory behind this matching system.

The BETA MATCH uses a split dipole for a driven element with both halves insulated from the boom. The antenna is then matched to the transmission line by forming a parallel-resonant circuit in which the antenna resistance appears in series with the capacitance. This capacitance can be changed by shortening or lengthening the driven element. The impedance of a circuit of this type varies inversely with the series resistance of the antenna, and therefore can be used to cause the 6 to 8 ohms driving-point resistance of the antenna to be seen as a large resistance at the terminals of the resonant circuit. We can choose values of capacitance and inductance to transform the antenna resistance to a resistance value equal to that of the characteristic impedance of any transmission line. Since the common coaxial feedline used today is 52 ohms, Hy-Gain has designed their BETA MATCH for this characteristic impedance on all their antennae except the VHF antennae. On the VHF antennae values are given whereby the user can change the input impedance to match a wide variety of feedline characteristic impedances. Let's take a look at the equivalent circuit a split dipole presents at its feed point. In Figure N° 1(A) you will note the common feed points of a yagi-type antenna. The input impedance at X and Y is around 4 to 8 ohms. At a given frequency the driven element (with shortened elements) appears as the antenna resistance in series with a capacitance as shown in Figure N° 1(B). To produce the resonant circuit mentioned above we need an inductance in parallel with this capacitance and this is provided by the BETA MATCH. The beta match is a simple piece of $1/8$ " rod connected across the driven-element feedpoint terminals. The feedline is then connected to this point and you have a circuit as shown in Figure N° 1(C). The inductance and capacitance of this circuit, at a given frequency, can be made to transform the actual input to any transmission line characteristic impedance by choosing the proper LC ratio. The actual constructed beta match looks like that shown in Figure N° 2(A) and (B).

The BETA MATCH is a simple, clean-in-appearance matching system that provides a close to perfect match to the feedline. It allows the designer to reach the much tried for 1:1 SWR readings providing the best antenna system one could want for today's commercial transmitters don't look to kindly on an SWR above 2:1. In short it is the answer to the modern day needs of the antenna designer.

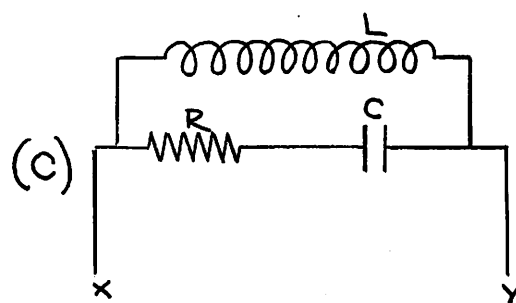
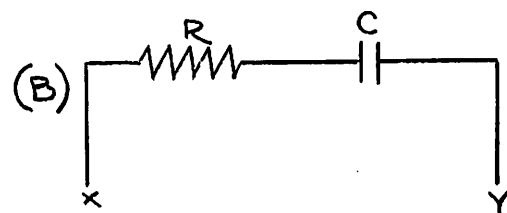
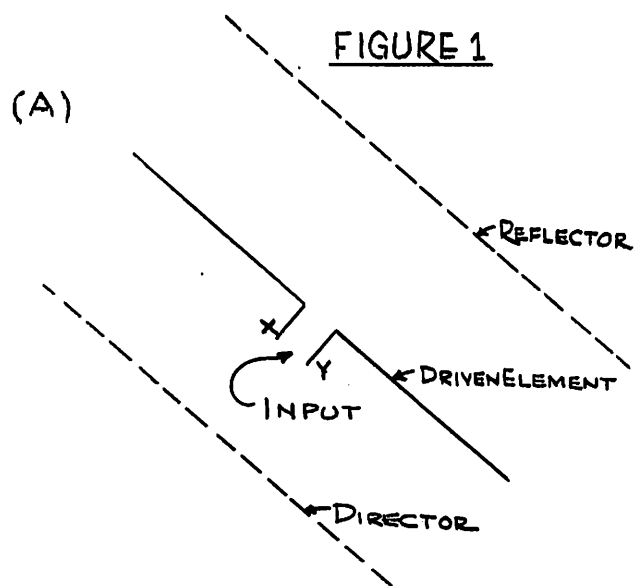
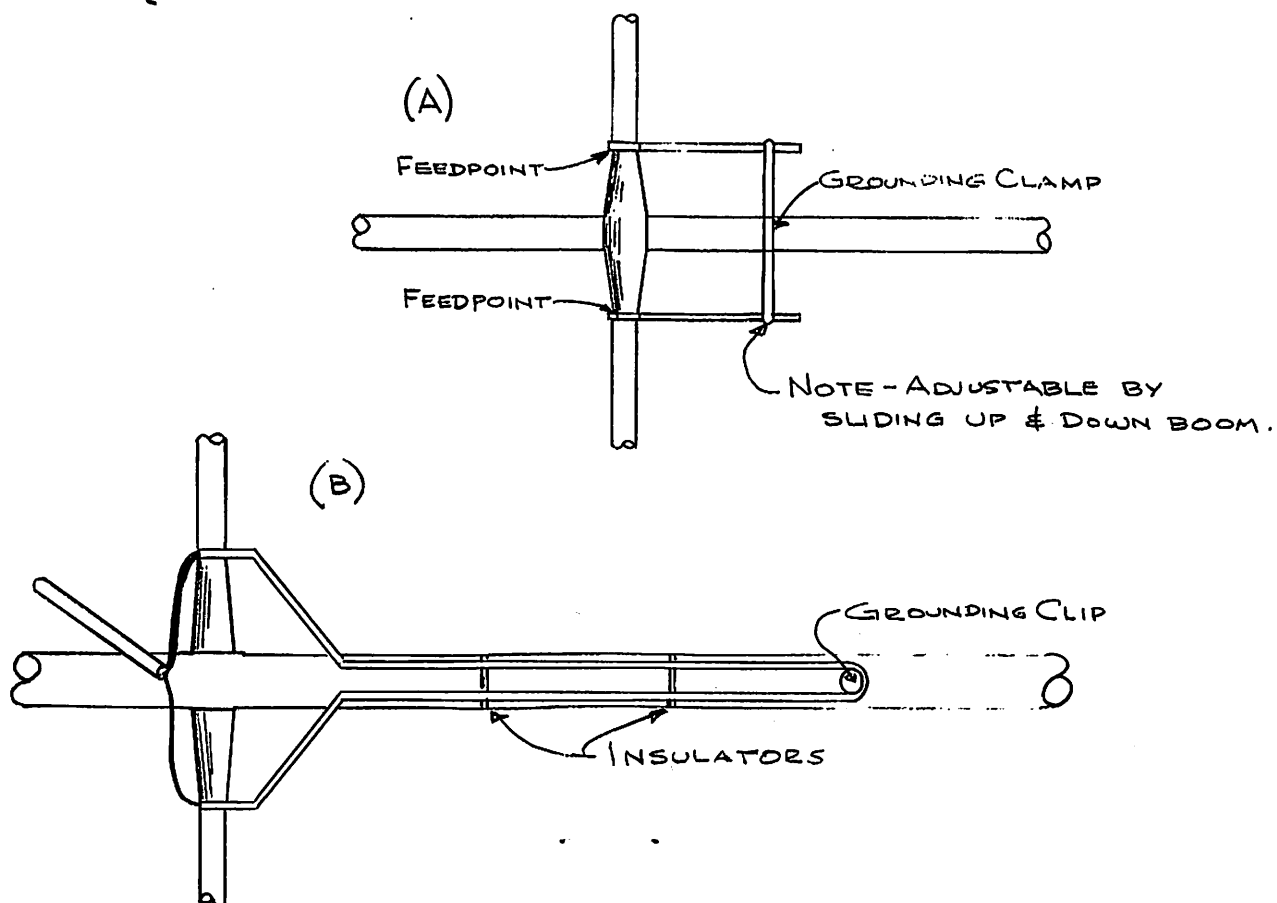


FIGURE 2



NEW MEMBER APPLICATIONS:-

WA2RDC	David C. Anderson 431 Anderson Avenue Runnemede, N. J. H - YE 1-4474 B - HO 5-1000, Ext. 2428 Employed by Philadelphia Naval Shipyard Sponsored by: K3GNM, K3KUD	Dave - Ruth
W3RVM	John H. Stevens 100 Evans Avenue Haverford, Penna. H - MI 2-7695 B - BR 5-1000 Owner - Tactair Fluid Controls Corp. Sponsored by: W3AK, W3HFD	John - Mary Grace
W1YJI/3	Lloyd Soel Teran 3242 North 17th Street Philadelphia 40, Penna. H - BA 6-3480 Student, Temple University Dental School Sponsored by: K3CEE, W3WPD	Lloyd - No XYL

DIRECTORY CHANGES:-

Add the following Associate Members:

K3CJC	Antoinette Baylis - Toni RD #3 - Box 824B Edgewater, Maryland
W3IVD	Burton Baylis - Burt RD #3 - Box 824B Edgewater, Maryland

The above new member applications are listed as they should be entered in the Directory if the applicants are accepted by the Club.

Please correct the spelling of John Tinaglia's address. It was listed in last month's Blurb incorrectly as "Glen Road, and should be spelled "Glenn Road".

The "Blurb"

A PHIL-MONT MOBILE RADIO
CLUB PUBLICATION

10 N. YORK RD. WILLOW GROVE, PA.

C. R. Spencer W3QQH
124 Central Ave.
North Hills Pa. R

TIME VALUE